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United States Department of Agriculture,

WASHINGTON, D. C., *November 30, 1918.*

MONTHLY LIST OF PUBLICATIONS.

[November, 1918.]

READ CAREFULLY BEFORE ORDERING.

☞**Send no remittances to the U. S. Department of Agriculture.**

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

☞**Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.**

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞NOTE.—The department's supply of the current numbers of Farmers' Bulletins is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

Ways of Making Southern Mountain Farms More Productive. By J. H. Arnold, Agriculturist. Pp. 28, figs. 10. Contribution from the Office of Farm Management. (Farmers' Bulletin 905.)

This bulletin describes crop rotations for small mountain farms in the southern Alleghenies, and gives complete directions for starting a crop rotation that will make poor mountain land more productive.

Water Systems for Farm Homes. By George M. Warren, Hydraulic Engineer. Pp. 68, figs. 50. Contribution from the Bureau of Public Roads. (Farmers' Bulletin 941.) Price, 10 cents.

Suitable for general distribution.

The Spotted Garden Slug. By William H. White, Scientific Assistant, Truck Crop Insect Investigations. Pp. 8, figs. 3. Contribution from the Bureau of Entomology. (Farmers' Bulletin 959.)

Suitable for general distribution.

The Spinose Ear Tick and Methods of Treating Infested Animals. By Marion Imes, Zoological Division. Pp. 8, figs. 4. Contribution from the Bureau of Animal Industry. (Farmers' Bulletin 980.)

A brief description of the tick, its life history, and instructions for treating infested animals are given in this bulletin.

Bean and Pea Weevils. By E. A. Back, Entomologist in Charge, and A. B. Duckett, Assistant Entomologist, Stored Product Insect Investigations. Pp. 24, figs. 24. Contribution from the Bureau of Entomology. (Farmers' Bulletin 983.)

For general distribution.

Farm Practices that Increase Crop Yields in the Gulf Coast Region. By M. A. Crosby, Agriculturist. Pp. 28, figs. 10. Contribution from the Office of Farm Management. (Farmers' Bulletin 986.)

For distribution in the Gulf Coast Region of Alabama, Mississippi, and West Florida.

Steam Sterilization of Seed Beds for Tobacco and Other Crops. By E. B. Beinhart, Assistant in Tobacco Investigations. Contribution from the Bureau of Plant Industry. (Farmers' Bulletin 996.)

This bulletin describes the necessary equipment and method of operation, with certain special features of seasonal convenience and seed-bed preparation. The method is applicable for working on either small or large seed-bed areas and can be used in all tobacco-growing districts.

Terracing Farm Lands. By C. E. Ramser, Senior Drainage Engineer. Pp. 40, figs. 37. Contribution from the Bureau of Public Roads. **(Farmers' Bulletin 997.)**
Suitable for general distribution.

Culture of the Logan Blackberry. By George M. Darrow, Scientific Assistant, Fruit-Production Investigations. Pp. 24, figs. 11. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 998.)**
Describes this berry and methods of culture and shows that it is not adapted to the country east of the Cascade and Sierra Ranges.

Hemorrhagic Septicemia. Stockyards Fever, Swine Plague, Fowl Cholera, etc. By Henry J. Washburn Pathological Division. Pp. 8. Contribution from the Bureau of Animal Industry. **(Farmers' Bulletin 1018.)**
Suitable for general distribution.

DEPARTMENTAL BULLETINS—TECHNICAL.

☞The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information, as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

The Manufacture of Neufchâtel and Cream Cheese in the Factory. By K. J. Matheson and F. R. Cammack, of the Dairy Division. Pp. 28, figs. 4. Contribution from the Bureau of Animal Industry. Nov. 18, 1918. **(Department Bulletin 669.)** Price, 5 cents.
A description of factors and methods necessary for successful production of these products.

Soils of Southern New Jersey and Their Uses. By J. A. Bonsteel, Scientist in Soil Survey. Pp. 78, figs. 27, maps 3. Contribution from the Bureau of Soils. (Professional Paper.) Oct 24, 1918. **(Department Bulletin 677.)** Price, 40 cents.
For distribution in the territory described.

Miscellaneous Truck-Crop Insects in Louisiana. I. Insects Injurious to the Globe Artichoke in Louisiana. II. The Granulated Cutworm, An Important Enemy of Vegetable Crops in Louisiana. III. Experiments in Controlling the Tomato Fruitworm with Arsenicals. By Thomas H. Jones, Entomological Assistant, Truck-Crop Insect Investigations. Pp. 19 pls. 4, figs. 5. Contribution from the Bureau of Entomology. Nov. 20, 1918. **(Department Bulletin 703.)** Price, 10 cents.
Of interest to truck growers and gardeners in said state.

Reports of Storage Holdings of Certain Food Products. By John O. Bell, Assistant in Market Surveys, and I. C. Franklin, Specialist in Storage. Pp. 44, figs. 23. Contribution from the Bureau of Markets. Nov. 20, 1918. **(Department Bulletin 709.)** Price, 10 cents.
Of interest to dealers in fruits, meats, and vegetables generally.

The Beet-Sugar Industry in the United States. By C. O. Townsend, Pathologist in Charge, Office of Sugar-Plant Investigations. Pp. 56, pls. 9, figs. 2. Contribution from the Bureau of Plant Industry. Nov. 22, 1918. **(Department Bulletin 721.)** Price, 15 cents.
A general statement as to the condition of this industry at the present time.

A Study of Heart-Rot in Western Hemlock. By James R. Weir, Forest Pathologist, and Ernest E. Hubert, Scientific Assistant, Office of Investigations in Forest Pathology. Pp. 39, figs. 13. Contribution from the Bureau of Plant Industry. (Professional Paper.) Oct. 22, 1918. **(Department Bulletin 722.)** Price, 10 cents.
Of interest to lumbermen and contractors generally.

Smyrna Fig Culture. By G. P. Rixford, Physiologist, Crop Physiology and Breeding Investigations. Pp. 48, figs 12. Contribution from the Bureau of Markets. Nov. 14, 1918. **(Department Bulletin 732.)** Price, 10 cents.
Describes the origin of this industry, and methods of growing, handling, and curing the Smyrna fig.

Nematode Galls as a Factor in the Marketing and Milling of Wheat. By D. A. Coleman, Scientific Assistant in Grain Standardization, and S. A. Regan, Grain Supervisor. Pp. 16, figs. 7. Contribution from the Bureau of Markets and the Bureau of Plant Industry. Nov. 13, 1918. **(Department Bulletin 734.)** Price, 5 cents.
A description of this disease, and suggested methods for its control.

Farm Practice in Growing Sugar Beets in the Billings Region of Montana. By S. B. Nuckols, Assistant Agriculturist, Office of Sugar-Plant Investigations, and E. L. Currier, Professor of Farm Management, Montana Agricultural College. Pp. 40, figs. 7. Contribution from the Bureau of Plant Industry. Nov. 15, 1918. **(Department Bulletin 735.)** Price, 10 cents.
Gives data gathered from 305 farms in the Billings region of Montana showing total hours of labor and other costs of production of beets in 1915.

The Open Shed Compared With the Closed Barn for Dairy Cows. By T. E. Woodward, W. F. Turner, W. R. Hale, and J. B. McNulty, of the Dairy Division. Pp. 15. Contribution from the Bureau of Animal Industry. Nov. 15, 1918. **(Department Bulletin 736.)** Price, 5 cents.
Of interest to all dairymen.

REPORTS.

Report of the Secretary of Agriculture, 1918. Pp. 54.

Reports of the Chief of the Division of Accounts and Disbursements, 1918. Pp. 3.

Report of the Chief of the Bureau of Animal Industry, 1918. Pp. 63.

Report of the Chief of the Bureau of Biological Survey, 1918. Pp. 19.

Report of the Chemist, 1918. Pp. 24.

Report of the Chief of the Bureau of Crop Estimates, 1918. Pp. 14.

Report of the Entomologist, 1918. Pp. 24.

Report of the Acting Chief of the Office of Farm Management, 1918. Pp. 9.

Report of the Federal Horticultural Board, 1918. Pp. 19.

Report of the Forester, 1918. Pp. 36.

Report of the Insecticide and Fungicide Board, 1918. Pp. 6.

Report of the Librarian, 1918. Pp. 16.

Report of the Chief of the Bureau of Markets, 1918. Pp. 39.

Report of the Acting Chief of the Bureau of Plant Industry, 1918. Pp. 30.

Report of the Director of the Bureau of Public Roads, 1918. Pp. 20.

Report of the Chief of the Division of Publications, 1918. Pp. 24.

Report of the Chief of the Bureau of Soils, 1918. Pp. 8.

Report of the Solicitor, 1918. Pp. 32.

Report of the Director of the States Relations Service, 1918. Pp. 37.

Report of the Chief of the Weather Bureau, 1918. Pp. 14.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 15, No. 3. Oct. 21, 1918. Contents: Effect of Hydrocyanic-Acid Gas under Vacuum Conditions on Subterranean Larvae. (pu O–1.) By E. R. Sasscer and H. L. Sanford.—Catalase and Oxidase Content of Seeds in Relation to Their Dormancy, Age, Vitality, and Respiration. (pp G–159.) By William Crocker and George T. Harrington.—The Meadow Plant Bug, Miris dolabratus. (pv. Mc–13.) Angular-Leafspot of Cucumber: Dissemination, Over-wintering, and Control. (pw G–160.) By Eubanks Carsner. Pp. 133–220, pls. 5, figs. 10. Price, 25 cents.

Same, Vol. 15, No. 4. Oct. 28, 1918. Contents: Plasticity of Biologic Forms of Puccinia graminis. (pz Minn–33.) By E. C. Stakman, F. J. Piemeisel, and M. N. Levine.—Experiments in Field Technic in Plot Tests. (py Minn–34.) By A. C. Arny and H. K. Hayes. Pp. 221–262, pl. 2. Price, 15 cents.

☞NOTE.—Beginning with volume 5 the Journal of Agricultural Research has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being $3 per year, 52 numbers.

Experiment Station Record. Vol. 39, No. 3. Abstract Number. Nov. 15, 1918. E. W. Allen, Ph. D., Editor. Pp. 201–300. Price, 15 cents.

☞NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publications, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 4, No. 11, November, 1918. Pp. 133–144. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

☞These contain *only* information, instructions, and notices governing the enforcement of the food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

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Bureau of Animal Industry. No. 137. September, 1918. Pp. 69–78. Nov. 8, 1918. Price, 5 cents.

Bureau of Biological Survey. No. 25. Pp. 4. Nov. 30, 1918. Price, 5 cents.

Federal Horticultural Board. No. 56. September, 1918. Pp. 87–97. Nov. 6, 1918. Price, 5 cents.

Insecticide and Fungicide Board. No. 22. Pp. 451–490. Nov. 16, 1918. Price, 5 cents.

SOIL SURVEYS.

☞All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Lowndes County, Alabama. By L. R. Schoenmann and R. T. Avon Burke. Pp. 68, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Reconnoissance Soil Survey of the Lower San Joaquin Valley, California. By J. W. Nelson and J. E. Guernsey, of the University of California, and L. C. Holmes and E. C. Eckmann, of the U. S. Department of Agriculture. Pp. 157, pls. 3, fig. 1, map. (From F. O. Soils, 1915.) Price, 25 cents.

Soil Survey of Clay County, Iowa. By E. H. Smies, of the U. S. Department of Agriculture, and T. H. Benton, of the Iowa Agricultural Experiment Station. Pp. 45, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Anoka County, Minnesota. By William G. Smith, of the U. S. Department of Agriculture, and George H. Nesom and E. G. Roth, of the University of Minnesota. Pp. 30, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Barry County, Missouri. By A. T. Sweet, of the U. S. Department of Agriculture, and E. W. Knobel, of the University of Missouri. Pp. 44, pls. 3, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Halifax County, North Carolina. By R. B. Hardison, of the U. S. Department of Agriculture, and L. L. Brinkley, of the North Carolina Department of Agriculture. Pp. 47, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Stanly County, North Carolina. By R. C. Jurney, of the U. S. Department of Agriculture, and S. O. Perkins, of the North Carolina Department of Agriculture. Pp. 34, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Marion County, Ohio. By T. M. Morrison, Oliver Gossard, and G. K. Sivaslian, of the Ohio Agricultural Experiment Station. Pp. 37, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Miami County, Ohio. By E. R. Allen and Oliver Gossard, of the Ohio Agricultural Station. Pp. 50, pls. 2, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Bell County, Texas. By William T. Carter, jr., H. G. Lewis, and H. W. Hawker. Pp. 46, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

☞Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. Vol. 46, No. 8. August, 1918. [Oct. 31, 1918.] Pp. 353–400, figs. 26, charts 9. Price, 25 cents per copy, $2.50 per year. Payable to the Superintendent of Documents.

Special Articles: Solar and sky radiation during August, 1918. By H. H. Kimball.—Volcanic eruptions and solar radiation.—Halo phenomena observed during August, 1918. By W. R. Gregg.—South Carolina meteor of April 23, 1918. By R. H. Sullivan.—Photomicrographs of snow crystals and methods of reproduction. By W. A. Bentley.—Hot spell of August, 1918. By A. J. Henry.—Night-temperature studies in the Roswell fruit district. By C. Hallenbeck.—Ice storms in the southern Appalachians. By V. Rhoades.—Hourly frequency of precipitation in central Ohio and its relation to agricultural pursuits. By H. H. Martin.—Alleged manufacture of rain in southern California. By F. A. Carpenter.

Same. Supplement. No. 13. Aerology No. 8. I. Free-Air Data at Drexel and Ellendale Aerological Stations, April, May, and June, 1918. II. Notes on Kite Flying. By Vincent E. Jakl. Pp. 81, fig. 1. Nov. 12, 1918. Price, 25 cents.

National Weather and Crop Bulletin. Nos. 31, 32. November, 1918, reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

EDWY B. REID,
Chief, Division of Publications.

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1919